

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: December 3, 2000, 17:37:21 ; Search time 23795.2 Seconds
(without alignments)
973.543 Million cell updates/sec

Title: US-09-227-881-2

Sequence: 1 atcttgcgttcgttaccctc.....caggcacctctcagcacagc 5304

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1033670 seqs, 218378903 residues

Total number of hits satisfying chosen parameters: 2067340

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

GenEmbl:*
1: gb_ba1:*
2: gb_ba2:*
3: gb_om:*
4: gb_ov:*
5: gb_pac:*
6: gb_ph:*
7: gb_pl1:*
8: gb_pl2:*
9: gb_pl3:*
10: gb_pr2:*
11: gb_pr3:*
12: gb_ro:*
13: gb_sy:*
14: gb_un:*
15: em_fun:*
16: em_hum1:*
17: em_hum2:*
18: em_in:*
19: em_om:*
20: em_or:*
21: em_ov:*
22: em_pat:*
23: em_ph:*
24: em_pl:*
25: em_ro:*
26: em_sts:*
27: em_sy:*
28: em_un:*
29: em_v1:*
30: gb_ba3:*
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32: gb_in2:*
33: gb_in3:*
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35: gb_pr4:*
36: em_ba1:*
37: em_ba2:*
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42: em_hc5:*
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88: gb_hc21:*
89: gb_hc22:*
90: gb_hc23:*
91: gb_sts1:*
92: gb_sts2:*
93: gb_v11:*
94: gb_v12:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	5274	99.4	79376	65 HS454G6	298750 Homo DNA s
2	5253.4	99.0	5300	11 AF007562	AF007562 Homo sapi
3	5223	98.5	170425	77 AC024490	AC024490 Homo sapi
4	1836	34.6	2800	66 HSMYOC1	AF049791 Homo sapi
5	417.8	7.9	1228	9 AB006686S1	AB006686 Homo sapi
6	407.8	7.7	1086	66 HSGLC1A1	297171 Homo sapien
7	189.8	3.6	161577	10 AC007688	AC007688 Homo sapi
8	189.8	3.6	193123	77 AC023790	AC023790 Homo sapi
9	189	3.6	199722	71 AC012404	AC012404 Homo sapi
C 10	187.8	3.5	97037	9 AC004973	AC004973 Homo sapi
C 11	187.8	3.5	135038	67 HUMYWXD703	L78810 Homo sapien
C 12	185.8	3.5	76727	65 HS821D11	AL021453 Human DNA

Dates not good

C 13	185.8	3.5	152044	79	AC026395	AC026395 Homo sapi
C 14	185.8	3.5	157057	72	AC025947	AC025947 Homo sapi
C 15	185.8	3.5	161499	78	AC015488	AC015488 Homo sapi
C 16	185.8	3.5	184656	86	AL161726	AL161726 Homo sapi
C 17	185.8	3.5	200681	62	AL161726	AL161726 Homo sapi
C 18	185.6	3.5	201372	86	AC008755	AC008755 Homo sapi
C 19	184.8	3.5	146190	89	AP001813	AP001813 Homo sapi
C 20	184.8	3.5	163494	89	AP002391	AP002391 Homo sapi
C 21	184.8	3.5	183241	89	AP001354	AP001354 Homo sapi
C 22	184.6	3.5	176029	11	AC011362	AC011362 Homo sapi
C 23	184.2	3.5	130020	67	HUAC004525	AC004525 Homo sapi
C 24	184	3.5	157304	78	AC024720	AC024720 Homo sapi
C 25	184	3.5	187709	73	AC016168	AC016168 Homo sapi
C 26	183.6	3.5	233734	70	AC011407	AC011407 Homo sapi
C 27	183.6	3.5	62070	88	AL358852	AL358852 Homo sapi
C 28	183.6	3.5	129370	89	AP000609	AP000609 Homo sapi
C 29	183.6	3.5	169333	89	AP002789	AP002789 Homo sapi
C 30	183.6	3.5	193171	74	AC018723	AC018723 Homo sapi
C 31	183.4	3.5	41407	11	AC053467	AC053467 Homo sapi
C 32	183.4	3.5	149138	79	AC026936	AC026936 Homo sapi
C 33	183.4	3.5	156331	90	HS193M1	AL121715 Homo sapi
C 34	183.4	3.5	174974	87	AL356055	AL356055 Homo sapi
C 35	183.4	3.5	195364	65	HS431A14	283956 Homo sapi
C 36	183.4	3.5	198583	74	AC019114	AC019114 Homo sapi
C 37	183.2	3.5	41936	35	CH19R30879	AD000684 Homo sapi
C 38	183.2	3.5	70128	10	AC007536	AC007536 Homo sapi
C 39	183.2	3.5	119483	9	AC005588	AC005588 Homo sapi
C 40	183.2	3.5	145528	9	AC003665	AC003665 Homo sapi
C 41	183.2	3.5	167943	65	HS267M20	AL031053 Homo sapi
C 42	183.2	3.5	170245	65	HS109F14	AL022721 Homo sapi
C 43	183	3.5	42686	9	AC000093	AC000093 Homo sapi
C 44	183	3.5	91767	10	AC007748	AC007748 Homo sapi
C 45	183	3.5	112748	10	AC007242	AC007242 Homo sapi

ALIGNMENTS

RESULT 1
 HS454G6/c
 LOCUS
 DEFINITION Human DNA sequence from PAC 454G6 on chromosome 1q24. Contains
 trabecular meshwork inducible glucocorticoid response protein,
 TIGR, myocilin, ESTs and STS.
 298750
 298750.1 GI:2887277
 1q24: myocilin; TIGR.
 ACCESSION
 VERSION
 KEYWORDS
 SOURCE
 ORGANISM
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 1 (bases 1 to 79376)
 Deadman,R.
 TITLE
 JOURNAL
 COMMENT
 Direct Submission
 Submitted (27-OCT-1997) Chromosome 1 Project Group
 (<http://www.sanger.ac.uk/HGP/Chr1/>) Sanger Centre, Hinxton,
 Cambridgeshire, CB10 1SA, UK. E-mail enquiries:
 humguery@sanger.ac.uk Clone requests: clones@sanger.ac.uk
 On Feb 14, 1998 this sequence version replaced gi:245060.
 IMPORTANT: This sequence is not the entire insert of clone 454G6.
 It may be shorter because we only sequence overlapping sections
 once, or longer because we arrange for a small overlap between
 neighbouring submissions.
 During sequence assembly data is compared from overlapping clones.
 Where differences are found these are annotated as variations
 together with a note of the overlapping clone name. Note that the
 variations annotated may not be found in the sequence submission
 corresponding to the overlapping clone as we submit sequences with
 only a small overlap as described above.
 This sequence was generated from part of bacterial clone contigs of
 human chromosome 1, constructed by the Sanger Centre chromosome 1
 mapping group. Further information can be found at
<http://www.sanger.ac.uk/HGP/Chr1/>

This sequence has been finished according to sequence map criteria
 as follows. An attempt is made to resolve all sequencing problems,
 such as compressions and repeats, but not necessarily within known
 annotated human repeat sequence elements (e.g. Alu). Where the
 sequence is ambiguous, there is an annotation using the 'unsure'
 feature key.
 The true left end of clone 454G6 is at 1 in this sequence. The true
 left end of clone 560B9 is at 79273.
 454G6 is from the library RPEC3 constructed at the Roswell Park
 Cancer Institute by the group of Pieter de Jong.
 For further details see <http://bacpac.med.buffalo.edu/>.

FEATURES

source
 1. 79376
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /chromosome="1"
 /map="1q24"
 /clone="RP3-454G6"
 /clone_1lb="RPECI-3"
 435..472
 /note="19 copies of 2 mer 82 & conserved"
 repeat_region
 1914..>3968
 /note="match: multiple ESTs
 match: R56676 AA043968 W63639 F12081 AA046699
 match: F02925 AA131540 W00634 R36066 AA13383
 match: AA163561 F02925 AA131540 W00634 R36066
 match: AA131383 AA163561 N891740 AA17481 AA057059
 match: AA4329084 W47082 AA043965 AA341783 AA353681
 match: AA046487 AA359741 H08313 AA166899 H327230
 match: H08333 H08236 N42052 D61944 R27102 N32353
 match: N30491 AA307150 AA192"
 3703..3746
 /note="22 copies of 2 mer 89 & conserved"
 4051..4183
 /note="AluSq repeat: matches 1..133 of consensus
 incomplete repeat"
 4200..4502
 /note="AluSq repeat: matches 2..301 of consensus"
 4659..4851
 /note="AluSx repeat: matches 2..194 of consensus
 incomplete repeat"
 5216..5345
 /note="AluJo repeat: matches 132..1 of consensus
 incomplete repeat"
 7759..7907
 /note="MIR repeat: matches 174..1 of consensus"
 7933..9328
 /note="TIGER1 repeat: matches 1..1472 of consensus"
 9332..9626
 /note="AluSg repeat: matches 1..289 of consensus"
 9639..10335
 /note="TIGER1 repeat: matches 1469..2174 of consensus"
 10343..10642
 /note="AluSP repeat: matches 1..300 of consensus"
 10643..10856
 /note="TIGER1 repeat: matches 2175..2417 of consensus"
 <10903..>16855
 /note="endogenous retroviral sequence"
 10949..11384
 /note="LTR2 repeat: matches 31..449 of consensus"
 15835..15870
 /note="18 copies of 2 mer 83 & conserved"
 16856..17286
 /note="LTR2 repeat: matches 31..449 of consensus"
 17287..17574
 /note="AluSg repeat: matches 15..300 of consensus"
 18294..18650
 /note="THER1B repeat: matches 358..1 of consensus"
 18877..19180
 /note="AluY repeat: matches 301..2 of consensus"
 19767..20013
 /note="LTR2 internal repeat: matches 5002..4750 of
 consensus"

repeat_region	20051..20118	/note="MLT1F repeat: matches 539. .471 of consensus"
repeat_region	20130..20261	/note="Aluub repeat: matches 131. .1 of consensus incomplete repeat"
repeat_region	20264..20722	/note="MLT1F repeat: matches 482. .1 of consensus"
repeat_region	20838..21223	/note="MST2 repeat: matches 394. .1 of consensus"
repeat_region	21216..21302	/note="MTR2_internal repeat: matches 4520. .443 of consensus"
repeat_region	21403..21703	/note="MTR2_internal repeat: matches 3887. .3580 of consensus"
repeat_region	21978..22357	/note="MTR2_internal repeat: matches 3218. .2839 of consensus"
repeat_region	22363..22524	/note="MTR2_internal repeat: matches 2495. .2317 of consensus"
repeat_region	22531..22839	/note="Alusx repeat: matches 302. .1 of consensus"
repeat_region	23007..23309	/note="Alusx repeat: matches 3. .301 of consensus"
misc_feature	23286..>23680	/note="STS G07544"
misc_feature	23680..24072	/note="STS G07436"
repeat_region	24008..24280	/note="Aluub repeat: matches 298. .6 of consensus"
repeat_region	23895..26364	/note="LTR2 repeat: matches 2. .449 of consensus"
repeat_region	26397..26697	/note="Alusx repeat: matches 1. .302 of consensus"
repeat_region	26719..27021	/note="Alusx repeat: matches 1. .302 of consensus"
repeat_region	29037..29334	/note="Alusx repeat: matches 300. .3 of consensus"
repeat_region	30028..30310	/note="Alusx repeat: matches 1. .301 of consensus"
repeat_region	30402..30559	/note="MTR2B repeat: matches 264. .404 of consensus"
repeat_region	30402..30615	/note="MTR2A repeat: matches 264. .453 of consensus"
prim_transcript	<30801..>31136	/note="match: 5' EST AA256902 clone 662136"
repeat_region	30980..31222	/note="MTR4B repeat: matches 199. .431 of consensus"
repeat_region	31232..31528	/note="AlusC repeat: matches 299. .1 of consensus"
repeat_region	31530..31654	/note="MTR4B repeat: matches 417. .540 of consensus"
repeat_region	31836..32135	/note="AluY repeat: matches 300. .1 of consensus"
repeat_region	32200..32301	/note="AluJo repeat: matches 186. .287 of consensus incomplete repeat"
repeat_region	32365..32493	/note="MTR repeat: matches 206. .67 of consensus"
repeat_region	33283..33399	/note="MTR repeat: matches 77. .196 of consensus"
repeat_region	33408..33667	/note="AluY repeat: matches 1. .291 of consensus"
repeat_region	33956..34043	/note="MTR repeat: matches 80. .167 of consensus"
repeat_region	34725..34904	/note="AluJo repeat: matches 299. .127 of consensus incomplete repeat"
repeat_region	34907..35207	/note="AluY repeat: matches 300. .1 of consensus"
repeat_region	35212..35344	/note="Aluub repeat: matches 133. .1 of consensus"

	repeatL_region	incomplete repeat"
	/note="AluJo repeat: matches 299 .1 of consensus"	
	36545 .36842	
	repeatL_region	38190 .38379
	/note="MER3 repeat: matches 209 .13 of consensus"	
	repeatL_region	38382 .38682
	/note="AlusX repeat: matches 1 .302 of consensus"	
	repeatL_region	38836 .38968
	/note="MIR2 repeat: matches 145 .2 of consensus"	
	repeatL_region	38983 .39279
	/note="AluJo repeat: matches 3 .296 of consensus"	
	repeatL_region	39418 .39773
	/note="THE1A repeat: matches 354 .2 of consensus"	
	repeatL_region	39775 .40120
	/note="THE1B-INTERNAL repeat: matches 1580 .1234 of consensus"	
	repeatL_region	40757 .41023
	/note="AluJo repeat: matches 37 .301 of consensus"	
	repeatL_region	incomplete repeat"
	41307 .41589	
	/note="Alusq repeat: matches 21 .303 of consensus"	
	Query Match	99.4% Score 5274; DB 65; Length 79376;
	Best Local Similarity	99.8% Pred. No. 0;
	Matches 5293; Conservative	0; Mismatches 5; Indels 6; Gaps 1;
Oy	1 attcttgcagttaccctcaggcgctatcatgaaatgaaatgaataccaattgaaag	60
Db	68406 ATCTTGTTCAGTTACTCAGGCGCTATTATGAATGAATGAGTAACATGTGAAG	68347
Oy	61 tccctaactcgttaagcctccatctcggaatgatctcttcggcaagtataagaatca	120
Db	68346 TCCCTAAACGTATAAGCCTCCATTCGGATGTATGCTTTGGCAGAATTAAGAACCA	68287
Oy	121 gaaagaagagatcaccttagccaaagtgcgaagcgtctgcctcttatagtgga	180
Db	68286 GGAAAGAGAGATCATCACGTTAGCCAATGTGCCAGCTGTGTCTCTTATTTAGTGA	68227
Oy	181 cagatgttgtctcttcacgaagcctatcttcgaagaaatcacatccaatatgytaaac	240
Db	68226 CAGATGTGTCTCTTGACAGAAAGCTATCTTCAGAAACATCATCAATATGTGAATTC	68167
Oy	241 catcaacaaggagcctaagaagaagaatgagatgagcattgccaaagaaaatgccaag	300
Db	68166 CATCAACAAGGAGCTAAAGAAACAGAAAGAGATGGCACTTGCCCAAGAAAAGCCAG	68107
Oy	301 gagagcaaaatgatlgaaaaaataacttccccttcttttaaatttcagaagaaaaatg	360
Db	68106 GAGAGCAAATATATGATGAATAAATAATTAACCTTTCCCTTTGTTTTATTTTCAGAAAAATG	68047
Oy	361 atgagagaccaaatcaatgaaataagaagaacagctcagaagaaaaagatgttccaaatg	420
Db	68046 ATGAGGACCAAAATCAATGAATAGAAAGAAACAGCTCACAATAAATATGTTCCAAATTGC	67987
Oy	421 taattaaglatattgtcttccttcggaaagagacctcatalgtgagcttgaatggaanaatlggaa	480
Db	67986 TAATTAAAGATTTGTTCTTGCGAAGAACCTCCATGTGAGCTTATGGAATAAGCGAA	67927
Oy	481 aaagctcaaagcatgatctgatacgaatcccaagtgatatatattttaaaaccgaat	540
Db	67926 AAAGCTCAAAACCATGATCTGTGTCGATCCCAAAATGGAATTAATTTTAAACCAAT	67867
Oy	541 ggcatcactctcgggaaggcaagtccaagaaagtlcatgtaagaagagcataacaataac	600
Db	67866 GGCACTCAGCTCTGGAGGCAAGTTAGSAGGTCTATTAGCAAGGACATTAACAATTAAC	67807
Oy	601 agcaaatcaaaaatccgcaaatgcaaggagaaaatgggagcttggaaaagctttcataac	660
Db	67806 AGCAAAATCAAAATTCACCAATCAGAGAGAAATGGGAGCTGGAAAGCTTTCATTAAC	67747
Oy	661 agtgatttgaggcgttgacaatgcttcgaaagcctccccgtctatccagggagaaacaaaaa	720
Db	67746 AATGATATGGCAGTGTGACCATGTTTGCAACACCTCCCGTCTATACGAGGGAACACAAA	67687

OY 721 attgacctgagctaaagcttgactttcaagggaatatgataaaatcgagagcaaaacaaa 780
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Db 67686 ATTGACTGGGCTTAAGCTGGACTTTTCAAGGGAATATGAAAACCTGAGACAAAACAAA 67627
OY 781 gacatggttaaaaggcaacagaaacatctgtagccttcaaaagcagctgccccctcaga 840
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Db 67626 GACATGGTTAAAGGCAACAGAAACATTGTAGCCTTCAAGCAGCAGTCCCTCCAGCA 67567
OY 841 gggagacctgagcatttgcttcttagaaggccagtttctttagaagaaattcttagaagaaattc 900
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Db 67566 GGGAGCCTTGAGGATTTGGCTTTAGGAAGCCAGTTTCTTAAGGAATCTTAAGAAATCTC 67507
OY 901 tgaagaacatcatgaattttaacaaatttaagtttaaaacaaataatgcaagcataatcag 960
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Db 67506 TTGAAGATATATGAATTTTAAACATTTTAAAGTATAAACAAATATGGATGCAATACAG 67447
OY 961 tttagacaatggttcccaattttaaaagtcaggcatacaagaaataacgtgtcccaagctcc 1020
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Db 67446 TTTTAGACATGGTCCCAATTTTATTAAGTCAGGCATACAGATACAGATGTCACAGCTCC 67387
OY 1021 ggtataggtcagaaatcatttagaaatcctgtgtcccaatccatcttccagaaatgac 1080
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Db 67386 GGATAGGTCAGAAATCATTTAGAAATCAGTGTCCCATCTTAACCTTTTCAGAAATGATC 67327
OY 1081 tgtcatagccctcaacacacagagcccgatgtgtctgacctcaaacacacatctacaacccaa 1140
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Db 67326 TGTGATAGCCTTCACACACAGGCCCGATGTGTCTGACCTTCACACACATATACACCCAA 67267
OY 1141 gtgcctcaaacatctgttaacgtgtcatctcagtagtgcacatatacaaaatgcacatccccc 1200
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Db 67266 GTGCTTCACACATTTGTAAAGTGTGATCATAGTAGTCCCATTAACAATGCCACTCCCC 67207
OY 1201 tgtgagagcccatcccgctccacaggaagttcccaatcagaattctgataagagtg 1260
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Db 67206 TGTGACGCCATCCGCTCCACAGGAAGTCTCCCATCTAGACTTCTGCATCCAGATGT 67147
OY 1261 taagaacgaagaagctccgtgagggtagaagtgctgtcttaacacatacctgtatagctaac 1320
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Db 67146 TAAGCCAGAAAGCTCCGTGAGGGGAGAGGTCTGTGTTTACACTTACACTTATGCTATAC 67087
OY 1321 acctgagctcaatctgcaaacctctgcctcccaagttcaagcaattctctgtctcaagctcc 1380
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Db 67086 ACCTGAGCTCAGTCAACCTCTCTCCTCCAGGTTCAGCAATTTCTCTGCTCAGCCTCC 67027
OY 1381 cgggtatgcttgaggtctacagcgcaagcgcccgctcaattttgtatgttagtaagaagaggg 1440
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Db 67026 CGGCTAGCTGGGACTACAGGCGACGCCGCTAATTTTGTATGTATAGATGAGG 66967
OY 1441 gttccacacatataagcccgctgtcttgaaacctgaactcaggtgataccacacatcc 1500
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Db 66966 GTTTCACACATTAAGCCCGGCTGTGTAACCTGTAACCTCAGGTGATCACCACCACTC 66907
OY 1501 agcctccataaagtctgaggttacaaggtcaggtcaccgctcccgagcaagggctcaagtgt 1560
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Db 66906 AGCCTCTAAAGTGTGGGATTAACAGGCATGAGTCAACCGCGCCGCAAGGGTCAAGTGT 66847
OY 1561 ttaataaagaataacttgaaatgtttactaaacaaaggaagaaacaaagctgtga 1620
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Db 66846 TTTAATAGGAATTAATGTAATGTTTACTTAACCAACAGGGAACAAACAAAGCTGTGA 66787
OY 1621 taatttcagaggtatctctgaggtgaggaatgtgcatgagctgcctgacctgaagccagac 1680
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Db 66786 TAATTTTCAAGGAGTTCTTTGGGATGGGAAATGTGTCATGACTGCTGCTTATGTCACGAC 66727
OY 1681 cacttggtcctcatcactttctccctcaactcaatttcaaggtlaagttacattat 1740
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Db 66726 CACTGGTCCCTATACACTTCTTCCCTCATCTCTAATTTTCAAGGCTAAGTATCAATTTTAT 66667
OY 1741 caacatgctcttctgttagagctccacatcggtcaacgtaaataagagatacatcaaacatag 1800
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Db 66666 CACCATGCTTTTGTGTGAACCTTCACATGCTACTGAAATAAGAGATATCATATAACTAG 66607

OY 1801 ttccatttgaggccatctgtgtgtgtataggggaggaagccatacccaagagactcc 1860
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Db 66606 TTCCATTTTGGGGCATCTGTGTGTGTATAGGGAGAGGGGATACCCAGAGACTCCT 66547
OY 1861 tgaagccccggcagaggtttctctccagctgagggagccctgcaagcaaccgggtcc 1920
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Db 66546 TGAAGCCCCGGCAGAGGTTTCTCTCCAGCTGGGGACCCCTGCAAGACCCGGGGTCC 66487
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Db 66486 TGGGTGTCTCGAGCAACCTGCCAGCCGTGCCACTGTGTTTGTATACACTCTAG 66427
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Db 66426 GACCTGTGCTTCTATTTCTGTGTGACTGTTCATTTCAATCCAGCATTCATGACAATT 66367
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Db 66366 TATTGAGTACTTATATCTGCAACACACAGAGCAAAATGTGTAGCAAAAGCACTCACTGC 66307
OY 2101 cctaaccttgtagaggtgagcagttctcatgtagagacgtgcaagaagaaatataagaca 2160
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Db 66306 CTAACCTTGTGGAGGTGACAGATTTCTCATGGAAGACGTGCAAGAAATTAATAGCCA 66247
OY 2161 gccaactlaaacccagtgctgtaaaagaaagaaataaacacacatctgaaagaaatgtgcgc 2220
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Db 66246 GCCAATTAACCCAGTGTGGAAGAAAGAAATAACACATCTTGAAAGAAATGTGCCG 66187
OY 2221 agcatcccttaacaaagccaacccctccatagcgccctgtctccatctgtgcccggag 2280
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Db 66186 AGCATCCCTTAACMAAGCCACCTCCCTAGCCGCCCTGTGCTCATGTGTGCCGGAAG 66127
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LOCUS	AF007562		
DEFINITION	Homo sapiens trabecular meshwork inducible glucocorticoid response protein (TIGR) gene, promoter region and partial mRNA sequence.		
ACCESSION	AF007562		
KEYWORDS	AF007562.1	GI:2970123	
SOURCE	human.		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.		
AUTHORS	1 (bases 1 to 5300) Nguyen,T.D., Chen,P., Huang,W.D., Chen,H., Johnson,D. and Polansky,J.R.		
TITLE	Gene structure and properties of TIGR, an olfactomedin-related glycoprotein cloned from glucocorticoid-induced trabecular meshwork cells		
JOURNAL	J. Biol. Chem. 273 (11), 6341-6350 (1998)		
MEDLINE	98165818		
REFERENCE	2 (bases 1 to 5300) Nguyen,T.D., Chen,P., Chen,H. and Polansky,J.R.		
AUTHORS	Direct Submission		
TITLE	Submitted (10-JUN-1997) Ophthalmology, University of California San Francisco		
JOURNAL	10 Kirkham Street, San Francisco, CA 94143-0730, USA		
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mRNA	1..5271 /gene="TIGR" 5272..>5300 /note="TIGR" /note="additional 3' sequence deposited as TIGR mRNA with Genbank Accession Number U85257" /product="trabecular meshwork inducible glucocorticoid response protein"		
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Query Match	99.0%	Score 5253.4	DB 11: Length 5300;
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REFERENCE AUTHORS

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AUTHORS

2 (pages 1 to 170425)

Birnen,S., Linton,D., Nusbaum,C., Lander,E., Abraham,H., Allen,N., Anderson,B., Baldwin,J., Barna,N., Beza,F., Boguslavsky,L., Boukhalter,B., Brown,A., Burkett,G., Campoliano,A., Cooke,P., Choquel,Y., Colangelo,M., Collins,S., Collymore,A., Castele,M., DeArallano,K., Dewar,K., Diaz,J.S., Dodge,S., Domino,M., Doyle,M., Fenesor,J., Ferreira,P., Fitzhugh,W., Forrest,C., Gage,D., Galesan,J., Gardyna,S., Ginde,S., Goyette,M., Graham,L., Grand-Pierre,N., Grant,G., Hagos,B., Heaford,A., Horton,L., Howland,J.C., Iliev,I., Johnson,R., Jones,C., Kann,L., Karatas,A., Klein,J., Landers,T., Largocque,K., Lenocky,J., Levine,R., Lieu,C., Liu,G., Locke,K., Macdonald,P., Marquis,N., McCarthy,M., McEwan,P., McGuck,A., McKernan,K., Mcpheeters,R., Meldrum,J., Menaus,L., Mithova,T., Miranda,C., Mlenga,V., Morrow,J., Naylor,J., Norman,C.H., O'Connor,T., O'Donnell,P., O'Neill,D., Oliver,T.M., Peterson,K., Pierre,N., Pisanl,C., Pollara,V., Raymond,C., Riley,R., Rogov,P., Rothman,D., Roy,A., Santos,R., Schauer,S., Severy,P., Spencer,B., Strange-Thomann,N., Stojanovic,N., Subramanian,A., Talamas,J., Tesfaye,S., Theodore,J., Tirell,A., Travers,M., Triggillo,J., Vassiliou,H., Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G., Zainoun,J., Zimmer,A. and Zody,M.

Direct Submission

JOURNAL

Submitted (28-FEB-2000) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA

COMMENT

On May 25, 2000 this sequence version replaced g1:7249345.

Oy	1556	agcgtttaaataagaataactctgaatgcttctaataaccacaggaataacgacaaagc	1615
Db	65245	AGCTGTTATAAGGATATACTTGAAGTTTACTAAACCAACAGGGAAACAGCAAAAGC	65304
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Oy	1676	cagaacactbgtctcatalcaattctctcccaaccatactcaattcaaggtcaagttaacatt	1735
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Oy	1736	ttatcacaacatgctctttgtgttaagcctccacatgcttatctgaataaagatataata	1795
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Oy	1796	actagttccattctggggccacatctgtgtgtgtatagggagagggtcataccccaaga	1855
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Oy	1856	ctcctctgaagcccccgcgcagaaagtctcctctccacgtctggggagcccttcaagcaccgg	1915
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Db	66085	AGGCTTCACAAAGAAATGAGAGGGAACACTATCTTAACGGAATCTGAGAGGGAGACGT	66144
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Q	2696	gttccataaagtcagccggttcaaaattccagggctgtcatgtgttttccctccacgaagcc	2755
D	66385	gttttcataaactcagcgtgtttaaattccagggctgcattgggttttcccttcacgaagcc	66444
Q	2756	ttcattcaatgggaatabaggaagcgagctcaattccctaagccgttaattcacggaagaa	2815
D	66445	ttttattttaatgggaattatagaaacgagctcatttccctagccgttaattcacggaagaa	66504
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DEFINITION Homo sapiens myocilin (GLC1A) gene, promoter and exon 1.
ACCESSION AF049791
VERSION AF049791.1 GI:3065670
KEYWORDS
SEGMENT
SOURCE
ORGANISM
human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 2800)
Fingerl, J.H., Ying, L., Swiderski, R.E., Nystuen, A.M., Atbour, N.C.,
Alward, W.L.M., Sheffield, V.C. and Stone, E.M.
Characterization and comparison of the human and mouse GLC1A
glaucoma genes
Genome Res. (1998) In press
JOURNAL
REFERENCE
2 (bases 1 to 2800)
Fingerl, J.H., Ying, L., Swiderski, R.E., Nystuen, A.M., Atbour, N.C.,
Alward, W.L.M., Sheffield, V.C. and Stone, E.M.
Direct Submission
JOURNAL
Submitted (23-FEB-1998) Ophthalmology, University of Iowa, 200
Hawkins Drive, Iowa City, IA 52242, USA
FEATURES
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/db_xref="taxon:9606"
/chromosome="1"
/map="1q21-q31"
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/gene="GLC1A"
exon
1906..2509
/gene="GLC1A"
BASE COUNT 781 a 588 c 673 g 758 t
ORIGIN

Query Match	34.6%	Score 1836	DB 66	Length 2800	
Best Local Similarity	99.5%	Pred. Num 0			
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Gaps					2
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Db	1	AGCGCAGGGGAGGAGAGAG-AAAAGAGAGGGATAGTGTATAGCAGAAAGACAGATTCT	59		
Oy	3491	tcaaggagcgtggygaaatgaccacagggatlaagtcacgctgacccctggtctlagag	3550		
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Db	960	TTACAGTTTCTGCAGATNAGCTGTGAAGTGAATATTTATACITCAAAACACTTGTGAATT	1019		
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[illegible]

ORGANISM	SEQUENCE	SEGMENT	KEYWORDS	VERSION	ACCESSION	DEFINITION	LOCUS	RESULT
Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.	AB006686.1	GI:2828342	myoclln.	1 of 3	AB006686	Homo sapiens pre-Pro-B cell cell_line:FLB14-14 DNA, clone_1b:BAC clone:KB180C12.	AB006686.1	5
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;	AB006686.1	1228 bp	DNA		AB006686	Homo sapiens gene for myoclln, exon 1, complete sequence.	AB006686.1	14-APR-2000

[illegible]

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DEFINITION	1086 bp	trabecular meshwork induced glucocorticoid response gene, exon I, joined CDS.	30-JAN-1998
ACCESSION	297171		
VERSION	297171.1	GI:2425156	
KEYWORDS	GLC1A.		
SOURCE	human.		
ORGANISM	homo sapiens		
REFERENCE			
AUTHORS	1 (bases 1 to 1086)		
TITLE	Stone, E.M., Fligner, J.H., Alward, W.L., Nguyen, T.D., Polansky, J.R., Sundén, S.L., Nishimura, D., Clark, A.F., Nystuen, A., Nichols, B.E., Ritch, R., Kalenak, J.W., Craven, E.R. and Sheffield, V.C.		
JOURNAL	Identification of a gene that causes primary open angle glaucoma		
MEDLINE	Science 275 (5300), 668-670 (1997)		
REFERENCE	97158493		
AUTHORS	2 (bases 1 to 1086)		
TITLE	Adam, M.F., Belmouden, A., Binisti, P., Brezin, A.P., Valot, F., Bechevillat, A., Dascotte, J.C., Copin, B., Gomez, L., Chaventre, A., Bach, J.F. and Garchon, H.J.		
JOURNAL	Recurrent mutations in a single exon encoding the evolutionarily conserved olfactomedin-homology domain of TIGR in familial open angle glaucoma		
MEDLINE	Hum. Mol. Genet. 6 (12), 2091-2097 (1997)		
REFERENCE	Hum. Mol. Genet. 6 (12), 2091-2097 (1997)		
AUTHORS	3 (bases 1 to 1086)		
TITLE	Garchon, H.J.		
JOURNAL	Direct Submission		
MEDLINE	Submitted (20-JUN-1997) Garchon H.-J., Hopital Necker, INSEMN U25		
REFERENCE	Submitted (20-JUN-1997) Garchon H.-J., Hopital Necker, INSEMN U25		
AUTHORS	161 rue de Sevres 75743 Paris cedex 15 FRANCE		
TITLE	location/Qualifiers		
JOURNAL	1. 1086		
MEDLINE	/organism="Homo sapiens"		
REFERENCE	/db_xref="taxon:9606"		
AUTHORS	/chromosome="1"		
TITLE	/map="q23-q25"		
JOURNAL	/tissue-type="white blood cells"		
MEDLINE	355. 363		
REFERENCE	385. 1065		
AUTHORS	/gene="GLC1A"		
TITLE	/label-ex1		
JOURNAL	/number=1		
MEDLINE	join(385. 1065,297177.1:21. 146,297174.1:21. 1475)		
REFERENCE	/gene="GLC1A"		
AUTHORS	/label="RNAGLIAA		
TITLE	join(385. 1065,297177.1:21. 146,297174.1:21. 1475)		
JOURNAL	/gene="GLC1A"		
MEDLINE	462. 1065		
REFERENCE			
AUTHORS			
TITLE			
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AUTHORS			
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AUTHORS			
TITLE			
JOURNAL			
MEDLINE			
REFERENCE			

SEQUENCE, 35 unordered pieces.
AC023790
VERSION AC023790.16 GI:9438256
KEYWORDS HTG: HTGS_PHASE1; HTGS_DRAFT.
SOURCE human.
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 193123)
Mammalia: Eutheria: Primates: Catarrhini: Hominoidea: Homo.
Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi;
Muzny, D.M., Adams, C., Bailey, M., Barbara, J., Blankenburg, K.,
Bodota, B., Bouck, J., Bowie, S., Brooks, A., Buhay, C., Buns, C.,
Burkett, C., Burrows, J., Carter, M., Chacko, J., Chen, Z., Cox, C.,
David, R., Delgado, O., Deshazo, D., Ding, Y., Domah-Rashid, N.,
Fagan-Rocha, S., Durbin, K.J., Fernandez, C., Ferraguto, D.,
Furum-Tansey, J., Frantz, P., Ganesh, R., Gorrell, J.H., Gorrell, L.L.,
Guevara, M., Harris, K., Hernandez, J., Hodgson, A., Hogues, M.,
Hollway, C., Hosak, H., Jackson, L.E., Jackson, L., Jia, Y., Jones, M.,
Kelly, S., Kondejewski, N., Kong, Y., Kovar, C., Leal, B., Li, Z.,
Lichter, R., Liu, J., Liu, M., Logan, O., Lozano, R.J., Lu, J.,
Lucier, R., Martin, R., Martinez, C., McLeod, M.P., Mel, G., Morgan, M.,
Morris, S., Nash, S., Nelson, A., Nguyen, R., Nguyen, N., Nguyen, S.,
Oswal, G., Parish, B., Paxton, S., Payton, B., Perez, L., Pu, L.L.,
Quiles, M., Reiter, D., Rives, M., Samuel, S., Say, J., Scherer, S.,
Shah, E., Shen, H., Simon, M., Sparks, A., Stamps, A., Sugrany, R.,
Taber, P., Taylor, T., Vasquez, L., Vinson, R., Vo, O., Waldbach, M.,
Wellington, S., Weinstein, G., Weinstein, I.R., Williamson, A.,
Worley, K., Wren, J., Wrensford, G., Yu, W., Zhou, X., Nelson, D. and
Gibbs, R.
Direct Submission
Unpublished
2 (bases 1 to 193123)
Worley, K.C.
Direct Submission
Submitted (18-FEB-2000) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
On Jul 25, 2000 this sequence version replaced gi:9255941.
----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: http://www.hgsc.bcm.tmc.edu/
Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: HABM
Center clone name: RP11-377D9
----- Summary Statistics
Assembly program: Phrap; version 0.990329
Consensus quality: 167304 bases at least Q40
Consensus quality: 176244 bases at least Q30
Consensus quality: 181341 bases at least Q20
Estimated insert size: 180060; sum-of-contigs estimation
Quality coverage: 0x in Q20 bases; agarose-gel estimation
Quality coverage: 3.1x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.tmc.edu/docs/genbank/draft.data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 35 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
*
* 21094: contig of 21094 bp in length
* 21095: gap of unknown length
* 21195: contig of 12736 bp in length
* 33931: gap of unknown length
* 34031: contig of 14288 bp in length
* 48318: gap of unknown length
* 48319: gap of unknown length
* 48419: contig of 10381 bp in length
* 58899: gap of unknown length
* 58900: contig of 9824 bp in length

68724 68823: gap of unknown length
* 68824 76073: contig of 7250 bp in length
* 76074 76173: gap of unknown length
* 76174 82868: contig of 6695 bp in length
* 82869 82968: gap of unknown length
* 82969 90046: contig of 7078 bp in length
* 90047 90147: gap of unknown length
* 90148 96142: contig of 5995 bp in length
* 96143 96242: gap of unknown length
* 96243 101873: contig of 5632 bp in length
* 101874 101973: gap of unknown length
* 101974 108002: contig of 6029 bp in length
* 108003 108102: gap of unknown length
* 108103 112903: contig of 4801 bp in length
* 112904 113004: gap of unknown length
* 113005 120209: contig of 7206 bp in length
* 120210 120309: gap of unknown length
* 120310 126353: contig of 6044 bp in length
* 126354 126453: gap of unknown length
* 126454 132888: contig of 6435 bp in length
* 132889 132988: gap of unknown length
* 132989 140137: contig of 7149 bp in length
* 140138 140237: gap of unknown length
* 140238 144632: contig of 4394 bp in length
* 144633 144731: gap of unknown length
* 144732 150313: contig of 5581 bp in length
* 150314 150412: gap of unknown length
* 150413 154114: contig of 3702 bp in length
* 154115 154214: gap of unknown length
* 154215 158458: contig of 4244 bp in length
* 158459 158558: gap of unknown length
* 158559 161385: contig of 2827 bp in length
* 161386 161485: gap of unknown length
* 161486 164320: contig of 2835 bp in length
* 164321 164420: gap of unknown length
* 164421 167715: contig of 3294 bp in length
* 167716 167814: gap of unknown length
* 167815 171014: contig of 3200 bp in length
* 171015 171114: gap of unknown length
* 171115 173843: contig of 2729 bp in length
* 173844 173943: gap of unknown length
* 173944 176631: contig of 2688 bp in length
* 176632 176731: gap of unknown length
* 176732 178648: contig of 1917 bp in length
* 178649 178748: gap of unknown length
* 178749 180232: contig of 1484 bp in length
* 180233 180332: gap of unknown length
* 180333 183104: contig of 2772 bp in length
* 183105 183204: gap of unknown length
* 183205 184720: contig of 1516 bp in length
* 184721 184820: gap of unknown length
* 184821 186137: contig of 1317 bp in length
* 186138 186237: gap of unknown length
* 186238 188213: contig of 1976 bp in length
* 188214 188313: gap of unknown length
* 188314 190073: contig of 1760 bp in length
* 190074 190173: gap of unknown length
* 190174 191855: contig of 1682 bp in length
* 191856 191955: gap of unknown length
* 191956 193123: contig of 1168 bp in length.

FEATURES
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/db_xref="taxon:9606"
/chromosome="12"
/clone="RP11-377D9"
BASE COUNT 54294 a 41007 c 41291 g 53110 t 3421 others
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Query Match 3.6% Score 189.8; DB 77; Length 193123;
Best Local Similarity 78.5% Pred. No. 1.3e-31;
Matches 227; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

Oy 1530 tgaatcaccgcgcgcgaaggtcagtttaata 1566
 1111 1111 1111 1111 1111 1111
 Db 184859 TGAGCCACCATGCGAGCCCATCTTACTTTTACA 184895

RESULT 10
 AC004973/C
 LOCUS AC004973 97037 bp DNA PRI 21-DEC-1999
 DEFINITION Homo sapiens PAC clone RP5-113911 from Xq23, complete sequence.
 AC004973
 VERSION AC004973.1 GI:3694660
 KEYWORDS HTG.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 REFERENCE 1 (bases 1 to 97037)
 AUTHORS Sulston, J.E. and Waterston, R.
 TITLE Toward a complete human genome sequence
 JOURNAL Genome Res. 8 (11), 1097-1108 (1998)
 REFERENCE 2 (bases 1 to 97037)
 MEDLINE Courtney, L., Langston, Y. and Drone, K.
 AUTHORS The sequence of Homo sapiens PAC clone RP5-113911
 TITLE Unpublished
 JOURNAL 3 (bases 1 to 97037)
 REFERENCE Waterston, R.H.
 AUTHORS Direct Submission
 TITLE Submitted (12-JUN-1998) Genome Sequencing Center, Washington
 JOURNAL University School of Medicine, 4444 Forest Park Parkway, St. Louis,
 MO 63108, USA
 REFERENCE 4 (bases 1 to 97037)
 AUTHORS Waterston, R.
 TITLE Direct Submission
 JOURNAL Submitted (03-OCT-1998) Department of Genetics, Washington
 University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
 REFERENCE 5 (bases 1 to 97037)
 AUTHORS Waterston, R.
 TITLE Direct Submission
 JOURNAL Submitted (18-MAR-1999) Department of Genetics, Washington
 University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
 REFERENCE 6 (bases 1 to 97037)
 AUTHORS Waterston, R.
 TITLE Direct Submission
 JOURNAL Submitted (21-DEC-1999) Department of Genetics, Washington
 University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
 On Oct 3, 1998 this sequence version replaced gi:3213024.
 ----- Genome Center
 Center: Washington University Genome Sequencing Center
 Center code: WUGSC
 Web site: http://genome.wustl.edu/gsc
 Contact: saplens@wustl.wustl.edu
 ----- Summary Statistics
 Center project name: H_DJ1139101

NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.

This sequence was finished as follows unless otherwise noted:
 all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.

MAPPING INFORMATION:
 This sequence was generated from part of bacterial clone contigs of human chromosome X, constructed by the chromosome X mapping group

at the Sanger Centre, Wellcome Trust Genome Campus, Hinxton, UK.
 Further information can be found at
<http://www.sanger.ac.uk/HGP/ChrX/>

SOURCE INFORMATION:

This clone was derived from human PAC library RPC1-5, prepared by Pletier de Jong and coworkers at the Roswell Park Cancer Institute (<http://bacpac.med.buffalo.edu>) using the method described by Ioannou et al., Nature Genetics 6:84-9 (1994). The library is from one male donor.

The clone may be obtained either from Genome Systems, Inc. (<http://www.genomesystems.com>) or Research Genetics, Inc. (<http://www.resgen.com>); or from Pletier de Jong.

VECTOR: pCYPAC2

NEIGHBORING SEQUENCE INFORMATION:

The clone sequenced to the left is RP4-555N2; the clone sequenced to the right is RP3-404F18, 200 bp overlap. Actual start of this clone is at base position 1 of RP5-113911; actual end is at 13269 of RP3-404F18.

FEATURES

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	/chromosome="X"
	/map="Xq23"
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	/rpt_family="L1"
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repeat_region	11238..11612
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repeat_region	11972..12283
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repeat_region	12859..13433
	/rpt_family="MER1_type"

repeat_region	13435..13564	/rpt_family="Alu"
repeat_region	13580..13645	/rpt_family="MER1_type"
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repeat_region	14119..14411	/rpt_family="Alu"
repeat_region	14412..14813	/rpt_family="L1"
repeat_region	14801..15447	/rpt_family="L1"
repeat_region	16501..16654	/rpt_family="L2"
repeat_region	17412..17533	/rpt_family="MER1_type"
repeat_region	17534..17793	/rpt_family="Alu"
repeat_region	17794..17912	/rpt_family="MER1_type"
repeat_region	17933..18249	/rpt_family="L1"
repeat_region	18293..18358	/rpt_family="MIR"
repeat_region	18348..18476	/rpt_family="L2"
repeat_region	18483..18908	/rpt_family="MALR"
repeat_region	18932..19227	/rpt_family="Alu"
repeat_region	19390..19604	/rpt_family="L2"
repeat_region	19606..20227	/rpt_family="ACHOba"
repeat_region	20228..20477	/rpt_family="Alu"
repeat_region	20478..20721	/rpt_family="ACHOba"
repeat_region	20738..20828	/rpt_family="ACHOba"
repeat_region	20848..21707	/rpt_family="L2"
repeat_region	21717..22111	/rpt_family="L2"
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Best Local Similarity	78.7%;	Pred. No. 3.4e-31;		
Matches 240;	Conservative 0;	Mismatches 57;	Indels 8;	Gaps 1;

Oy	1280	aggagggabgggtctgtgtcttaactaactcgtatgctctaaccccgaggtcaactgcaacc	1339
Db	54922	AGAGCTTGTGCTCTGTTCATCCAAAGCTGGAGTGGACGTGCAGTCTCAGTCACTGCAACC	548653
Oy	1340	tctgctcccaaggttcgaagcaattctctcgtctctcaagccctccggttagctggactcaag	1399

[illegible][illegible]

REFERENCE 1 (bases 1 to 135038)
AUTHORS Chen,C.N., Su,Y., Baybayan,P., Siruno,A., Nagaraja,R.,
Mazzarella,R., Schlessinger,D. and Chen,X.E.
TITLE Ordered shotgun sequencing of a 135 kb Q25 YAC containing ANT2 and
four possible genes, including three confirmed by EST matches
JOURNAL Nucleic Acids Res. 24 (20), 4034-4041 (1996)
MEDLINE 97078684
COMMENT Submitted by:

Applied Biosystems Division of Perkin Elmer Corp., 850 Lincoln Center Drive, Foster City, CA 94404 USA
David Schlüssinger,
Department of Molecular Microbiology and Center for Genetics in Medicine
Washington University School of Medicine,
St. Louis MO 63110 USA
e-mail: ellison@genseq.aplaidbio.com and david@genetics.wustl.edu
Note: Gene predictions were accomplished with runs of Gail versions 1.1 and 1.2, coupled with fasta and blastx comparisons to genbank & non-redundant peptide libraries. Repeat analysis was accomplished via censor.
The Rat EST103569 shows significant homology via blastx to this sequence
Strand Start End
top 9072 9326
The Graves Disease carrier protein (X66035) shows significant homology via blastx to this sequence
Strand Start End
top 28802 29076
top 35858 36081
Comments for gene ANT-2 :
This gene shows homology via blastx to the EST clone y115a12 Strand Start End
bottom 125266 125915.

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repeat_unit	/rpt_family="L1PA11" /evidence-experimental complement(2468. .2757) /rpt_family="Alu-Sx" /evidence-experimental 2774. .3059	repeat_unit	/rpt_family="LIME3A" /evidence-experimental 20900. .20986 /rpt_family="MSTa" /evidence-experimental 20988. .21276
repeat_unit	/rpt_family="MRLC" /evidence-experimental complement(3204. .3325) /rpt_family="MIR2" /evidence-experimental 3384. .3674	repeat_unit	/rpt_family="Alu-Sx" /evidence-experimental 21342. .21723 /rpt_family="LIME3A" /evidence-experimental 21841. .22129
repeat_unit	/rpt_family="Alu-Sg" /evidence-experimental 3794. .4216 /rpt_family="L1MA9" /evidence-experimental 7502. .7792	repeat_unit	/rpt_family="Alu-Sp" /evidence-experimental 22150. .22445 /rpt_family="Alu-J" /evidence-experimental complement(22542. .22789)
repeat_unit	/rpt_family="Alu-J" /evidence-experimental 7965. .8072 /rpt_family="L1MA2" /evidence-experimental 8073. .8360	repeat_unit	/rpt_family="THE1B" /evidence-experimental complement(23235. .23377) /rpt_family="MIR2" /evidence-experimental complement(23513. .23798)
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repeat_unit	/rpt_family="L1" /evidence-experimental 8744. .8869 /rpt_family="Alu-J" /evidence-experimental complement(9771. .10055)	repeat_unit	/rpt_family="Alu-Sg" /evidence-experimental 24945. .25234 /rpt_family="Alu-Sb2" /evidence-experimental 25236. .25393
repeat_unit	/rpt_family="Alu-Sx" /evidence-experimental 10292. .10780 /rpt_family="L1" /evidence-experimental 11403. .11692	repeat_unit	/rpt_family="Alu-Sc" /evidence-experimental complement(26486. .26773) /rpt_family="Alu-Sx" /evidence-experimental 26570. .26859
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repeat_unit	/rpt_family="Alu-Sx" /evidence-experimental 15348. .15628 /rpt_family="Alu-Sx"	repeat_unit	/rpt_family="Alu-Sc" /evidence-experimental

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tt in this entry
deletion"
/replace="ttat"
5780..5782
/gene="dj821D11.1"
/note="clone CTA-109G6
tat in this entry
substitution"
/replace="ttt"
5799..5801
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/note="clone CTA-109G6
cgg in this entry
substitution"
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Query Match	3.5%	Score 185.8;	DB 65;	Length 76727;
Best Local Similarity	78.5%;	Pred. No. 9.3e-31;		
Matches 238;	Conservative 0;	Mismatches 57;	Indels 8;	Gaps 1

variation	/note="MIR repeat: matches 32.74 of consensus"
4753..4754	

repeat_region	repeat_region	variation
4772..4790	4772..4790	4772..4790
/note="11M4 repeat: matches 3167. .3185 of consensus"	/note="11M4 repeat: matches 3167. .3185 of consensus"	/note="11M4 repeat: matches 3167. .3185 of consensus"
4791..5099	4791..5099	4791..5099
/note="11Jsq repeat: matches 2. .312 of consensus"	/note="11Jsq repeat: matches 2. .312 of consensus"	/note="11Jsq repeat: matches 2. .312 of consensus"
4791..4792	4791..4792	4791..4792

repeat_region	repeat	matches	consensus
5100..5116	/replace="ttctattat"	3151	3167 of consensus
5107..5112	/note="11M4"	3151	3167 of consensus

```

repeat_region      5117..5427      318 of consensus"
                   /note="AluYb8 repeat: matches 1.
                   5359..5361
                   /gene="dfr82d11.1"
                   /note="clone CTA-109G6
                   att in this entry

```

repeat_region	5430..5729	/note="AluIsp repeat: matches 1..300 of consensus"
repeat_region	5730..5764	/note="11M4 repeat: matches 316..3151 of consensus"
variation	5761..5762	

```

/replace="att"
5765. .6075
repeat_region

```

variation	5772. .5773	/note="Alyu repeat: matches 1. .311 of consensus"
-----------	-------------	---

```
/note="clone CTA-109G6  
tt in this entry
```

```

5778. .5779
/gene="dJ821D1.1"
variation

```

Oy	1280	aggcgagagggctctgctgtcttaacctaactacgtatgctcttaaccctgaagctctacgtcaacc	1339
Db	57418	AGAGCTCATCTTCTGTGGCTTAGGCTGGAGTGGAGTGGCATGTATCTCAGCTTAACTCCAAAC	57359
Oy	1340	tctgtctcccaaggttccaagcaattctctgtcttcaagcctcccgcgtagctggactacag	1399
Db	57338	TCTGCTCTCCAGAGTTCAAGTGATTTCTCTGTCTTGCTCTCGGCTCTCGGGTTGCTGGGACTATAG	57299
Oy	1400	gcg-----caagcccgctaaatttttgatgttgtagtagaagtcgggtttcacata	1451
Db	57298	GCGTGTACCAACCATGCCGGGCTAATTTTGTATTTTGTAGTAGAGATGGGGTTTACACATA	57239
Oy	1452	ttagccgcgctgtgtcttgtaactctgtacactcgaagtcagatccaccacccaactcaagctctaaa	1511
Db	57238	TTGGCTAGAGCTGTGTTGTAACTCTGACTCTCAGTGATGCCGCCACCTCGGCTCTCCAAA	57179
Oy	1512	gtctcgaggaattacaagcatgagttcacccgcccggcccaaggttcagttgtttaataagaa	1571
Db	57178	GTCGCTGGGATTTACAGCATGAGCCACTGTGCCGCCCAAAAATCTGGGTATTTCAAATTA	57119
Oy	1572	taa 1574	
Db	57118	AAA 57116	

RESULT	13
AC026395/c	
LOCUS	AC026395 152044 bp DNA HTG 15-JUN-2000
DEFINITION	Homo sapiens chromosome 10 clone RP11-45D20, WORKING DRAFT SEQUENCE, 44 unordered pieces.
ACCESSION	AC026395
VERSION	AC026395.3 GI:8567738
KEYWORDS	HTG; HTGS__PHASE1; HTGS__DRAFT.
SOURCE	human.
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
AUTHORS	Smith,D.R.
TITLE	Genome Therapeutics Corporation Sequencing Center: Human Genome Sequence Data Unpublished
JOURNAL	2 (bases 1 to 152044)
REFERENCE	Smith,D.R.
TITLE	Direct Submission
AUTHORS	Submitted (J2-MAR-2000) Genome Therapeutics Corporation, 100 Beaver Street, Welham, MA 02453, USA
JOURNAL	
COMMENT	On Jun 15, 2000 this sequence version replaced gi:7350305.

Center: Genome Therapeutics Corporation
Center code: GTC
Web site: <http://www.genomecorp.com/>
Contact: gtc-seqcenter@genomecorp.com

DEFINITION	Homo sapiens chromosome 10 clone RP11-78A18, WORKING DRAFT SEQUENCE, 26 unordered pieces.
ACCESSION	AC023947
VERSION	AC023947.3
KEYWORDS	GI:8439851
SOURCE	HTG: HTGS_PHASE1: HTGS_DRAFT. human.
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS	1 (bases 1 to 157057)
TITLE	Smith,D.R. Genome Therapeutics Corporation Sequencing Center: Human Genome Sequence Data
JOURNAL	Unpublished
REFERENCE	2 (bases 1 to 157057)
AUTHORS	Smith,D.R.
JOURNAL	Direct Submission Submitted (18-MAR-2000) Genome Therapeutics Corporation, 100 Beaver Street, Waltham, MA 02453, USA On Jun 10, 2000 this sequence version replaced gi:7528340.
COMMENT	----- Center: Genome Therapeutics Corporation Center code: GTC Web site: http://www.genomecorp.com/ Contact: gtc-seqcenter@genomecorp.com ----- Project Information Center project name: hg307 ----- Summary Statistics Sequencing vector: N/A Chemistry: Dye-terminator Big Dye, 100% of reads Assembly program: Phrap, version 990315 Consensus quality: 140586 bases at least Q40 Consensus quality: 148596 bases at least Q30 Consensus quality: 150061 bases at least Q20 Insert size: 154557; sum-of-contigs Quality coverage: 3.7x in Q20 bases; sum-of-contigs ----- * NOTE: This is a 'working draft' sequence. It currently * consists of 26 contigs. The true order of the pieces * is not known and their order in this sequence record is * arbitrary. Gaps between the contigs are represented as * runs of N, but the exact sizes of the gaps are unknown. * This record will be updated with the finished sequence * as soon as it is available and the accession number will * be preserved. * * 1 1544: contig of 1544 bp in length * 1545 1644: gap of unknown length * 3218 3218: contig of 1574 bp in length * 3219 3318: gap of unknown length * 3319 5022: contig of 1704 bp in length * 5023 5122: gap of unknown length * 5123 6553: contig of 1431 bp in length * 6554 6654: gap of unknown length * 6655 8651: contig of 1998 bp in length * 8652 8751: gap of unknown length * 8752 10843: contig of 2092 bp in length * 10844 10944: gap of unknown length * 10945 13772: contig of 2829 bp in length * 13773 13872: gap of unknown length * 13873 15825: contig of 1553 bp in length * 15826 15925: gap of unknown length * 15926 15991: contig of 3666 bp in length * 15992 19691: gap of unknown length * 19692 22350: contig of 2659 bp in length * 22351 22450: gap of unknown length * 22451 25948: contig of 3498 bp in length * 25949 26048: gap of unknown length * 26049 29641: contig of 3593 bp in length * 29642 29741: gap of unknown length * 29742 34105: contig of 4364 bp in length * 34106 34205: gap of unknown length * 34206 38484: contig of 4279 bp in length * 38485 38584: gap of unknown length

Query Match	Best Local Similarity	3.5%: Score 185.8; DB 78; Length 157057;
Matches 232; Conservative	0; Mismatches 47; Indels 8; Gaps 1;	
Qy 1321 acctgagctcactggaacctcctccacgagttcaagaattctctcgtctcagctcc	1380	
Db 109551 ATCTCGGCTCACTGCAACCTCCACCTCCCGGGTTCAGTAGTTCCTCGCTCAGCCTCC	109492	
Qy 1381 cgcgtagctgggaactagagc-----gaagcccgagtaattttgtatgttaagta	1432	
Db 109491 TGAGTAGCTGGGATTCACGAGCACCACCTACACACGCCCGCCAGCAATTTTGTATTTTAACTA	109432	
Qy 1433 gaggatgggggtttcacacatatagcccgagctgtctcttgaaaccccgaaactcagggatcaca	1492	
Db 109431 GAGATGGGGTTCACCAATGTTGGCCAGGCTGGCTTGAATCTCGAAGCTCAGGTGATCCA	109372	
Qy 1493 ccacactcagcctccctaagtgcttgagatacgaagcatgaatcacacgagcccgagcaag	1552	
Db 109371 CCCGCCTTAAGCTCCCAAGTGCTGGGATTCAGAGCATGACGACCACTGCACCTGGCCAAATT	109312	
Qy 1553 gtcagtgcttaataagsgataacttgaatggttcaactaaccacaag	1599	
Db 109311 TTAATTTTAAAAATGAGAAAAATGTGATTTTAAAAAAAACACAG	109265	
RESULT 15		
AC015488	AC015488	
LOCUS	AC015488	
DEFINITION	Homo sapiens clone Rpl1-20F6, WORKING DRAFT SEQUENCE, 16 unordered	
ACCESSION	AC015488	
VERSION	AC015488.4 GI:7107977	
KEYWORDS	HTG; HTGS_PHASE1; HTGS_DRAFT.	
SOURCE	human.	
ORGANISM	Homo sapiens	
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.	
	1 (bases 1 to 161499)	
	Birtten,B., Jinton,L., Nusbaum,C. and Lander,E.	


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|||||
Db 16949 GGTCTTGAACCTCTGACCTCAGATGATCCGCCCTCGCCTCCCAAGTGCTGGATT 17008
Oy 1523 ACAGGcatgagtcacccgcccgcgaaggtcagtgcttaagaaataac 1575
Db 17009 ACAGGgtgtagccaccgcccagcctatttttaattttttttatcaac 17061
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Search completed: December 3, 2000, 18:25:29
Job time: 43343 sec

